

Wind, Solar, AGF and DER Definition Amendments Effective September 1, 2018

Terms and definitions to be amended for use in the ISO rules as of September 1, 2018:

“aggregated generating facility” means, unless otherwise designated by the **ISO**, an aggregation of two (2) or more **generating units**, including any associated **reactive power** resources, where:

- (i) each **generating unit** is rated less than 9 MW;
- (ii) all **generating units** are situated in the same proximate location and have a common **collector bus** or multiple **collector busses** that can be operated as a common **collector bus**; and
- (iii) the **aggregated generating facility** is connected to the **interconnected electric system** or the electrical system in the service area of the City of Medicine Hat.

“allowable dispatch variance” means:

- (i) for each generating **source asset**, other than a wind or solar **aggregated generating facility**, as measured from the **dispatch** quantity:
 - (a) plus or minus five (5) MW for a generating **source asset** with a **maximum capability** of two hundred (200) MW or less; or
 - (b) plus or minus ten (10) MW for a generating **source asset** with a **maximum capability** of greater than two hundred (200) MW;
- (ii) for each wind or solar **aggregated generating facility** with a **maximum capability** of two hundred (200) MW or less:
 - (a) five (5) MW greater than the **dispatch** quantity and five (5) MW less than the potential **real power** capability, if the potential **real power** capability is less than the **dispatch** quantity; or
 - (b) plus or minus five (5) MW from the **dispatch** quantity, if the potential **real power** capability is greater than or equal to the **dispatch** quantity; and
- (iii) for each wind or solar **aggregated generating facility** with a **maximum capability** of greater than two hundred (200) MW:
 - (a) ten (10) MW greater than the **dispatch** quantity and ten (10) MW less than the potential **real power** capability, if the potential **real power** capability is less than the **dispatch** quantity; or
 - (b) plus or minus ten (10) MW from the **dispatch** quantity, if the potential **real power** capability is greater than or equal to the **dispatch** quantity.

“collector bus” means the low voltage side of any step-up transformers connected to the **interconnected electric system** or the electrical system in the City of Medicine Hat where the **real power** and **reactive power** produced by any **generating units** or **reactive power** resources, or both of them within an **aggregated generating facility**, are collected.

“commissioning” means:

- (i) in the case of a new **generating unit** or a new **aggregated generating facility**, the process of carrying out, after connection to the **interconnected electric system** but before **commercial operation**, activities designed to test equipment, the facility or a process to confirm that the facility can satisfactorily enter **commercial operation** and, where applicable, meets the **ISO's** requirements and other relevant standards;
- (ii) in the case of an existing **generating unit** or an existing **aggregated generating facility** that is being modified, the process of carrying out activities designed to test equipment, the facility or a process to confirm that the facility can satisfactorily continue in **commercial operation** and, where applicable, continue to meet the **ISO's** requirements and other relevant standards;
- (iii) in the case of a new **transmission facility** or a new load facility, the process of carrying out, after **energization** but before normal operation, activities designed to test equipment, the facility or a process to confirm that the facility can satisfactorily enter normal operation and, where applicable, meets the **ISO's** requirements and other relevant standards; and
- (iv) in the case of an existing **transmission facility** or an existing load facility that is being upgraded in the form of a requested increase in capacity or revised functionality, the process of carrying out activities designed to test equipment, a facility or a process to confirm that the facility can satisfactorily continue in normal operation and, where applicable, continue to meet the **ISO's** requirements and other relevant standards.

“governor or governor system” means automatic control equipment with frequency or speed droop characteristics to control:

- (i) the speed or electric power output of a **generating unit**, or both;
- (ii) the electric power input of a load;
- (iii) the electric power output or input of an energy storage facility, or both; or
- (iv) the speed or electric power output of an **aggregated generating facility**.

“maximum authorized real power” means:

- (i) for an **aggregated generating facility**, the sum of the maximum **gross real power** that may be delivered to the **collector busses** of the **aggregated generating facility**; or
- (ii) for a **generating unit** that is not part of an **aggregated generating facility**, the maximum **gross real power** that may be delivered to the stator winding terminal of the **generating unit**.